

Sub A5

Abstract of the Invention

Disclosed is a process for modifying cashew nut shell liquid (CNSL) which involves the steps of subjecting the CNSL to ozonolysis to form ozonolysis reaction products, followed by reduction of the ozonolysis reaction products to give a mixture of phenolic components and aldehydes. In a preferred embodiment, the process involves reacting CNSL with ozone to form a mixture containing ozonolysis reaction products, and then treating the mixture under reducing conditions to form a further mixture containing phenolic components with an eight carbon chain having a terminal -CHO group and alkyl components of varying lengths with either one or two terminal -CHO groups. The resulting CNSL aldehydes may be used to form adhesives for use in the manufacture of composites such as wood particle board.